

SEP 23 2004

Atty Docket No. 018781-005510US

PTO FAX NO.: (703) 872-9306

ATTENTION: Examiner David Lukton

Group Art Unit 1653

**OFFICIAL COMMUNICATION
FOR THE PERSONAL ATTENTION OF
EXAMINER David Lukton**

CERTIFICATION OF FACSIMILE TRANSMISSION

I hereby certify that the following documents in re Application of Alan Huang et al., Application No. 10/008,244, filed November 7, 2001 for STAT MODULATORS are being facsimile transmitted to the Patent and Trademark Office on the date shown below.

Documents Attached

1. Communication to Examiner (2 pages)
2. Copy of Information Disclosure Statement filed September 15, 2003 as received with the Office Action of April 7, 2004 (3 pages)

Number of pages being transmitted, including this page: 6

Dated: September 23, 2004


Jose Luna

**PLEASE CONFIRM RECEIPT OF THIS PAPER BY
RETURN FACSIMILE AT (415) 576-0300**

TOWNSEND and TOWNSEND and CREW LLP
Two Embarcadero Center, Eighth Floor
San Francisco, CA 94111-3834
Telephone: 925-472-5000
Fax: 925-472-8895

0016202 v1

BEST AVAILABLE COPY

SEP 23 2004

I hereby certify that this correspondence is being facsimile
transmitted to the United States Patent and Trademark Office,
Fax No. 1-703-872-9306 on 9/23/04.

PATENT
Docket No.: 018781-005510US
Client Ref. No.: T00-006-1/US

TOWNSEND and TOWNSEND and CREW LLP

By: 

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re application of:

Alan Huang, et al.

Application No.: 10/008,244

Filed: November 7, 2001

For: STAT MODULATORS

Examiner: David Lukton

Art Unit: 1653

COMMUNICATION

Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

Sir:

Applicants are in receipt of the Notice of Allowance and Fee(s) Due mailed by the Office on September 16, 2004. We respectfully note that the copy of the Information Disclosure Statement, filed September 15, 2003, forwarded by the Office on April 7, 2004, was not completely initialed by the Examiner. Specifically, reference numbers 1-7 do not appear to have been considered. Enclosed for the Examiner's convenience is a copy of the PTO/SB/08A and PTO/SB/08B forms (date stamped September 17, 2003 by the Office) that were received with the Office Action of April 7, 2004.

If the Examiner is in possession of the art, Applicants respectfully request prompt consideration of the aforementioned documents. However, if the Examiner

Alan Huang et al.
Application No.: 10/008,244
Page 2

PATENT

requires additional copies of these references, Applicants will gladly forward them for the Examiner's consideration.

Respectfully submitted,



Mark H. Hopkins, Ph.D.
Reg. No. 44,775

TOWNSEND and TOWNSEND and CREW LLP
Two Embarcadero Center, 8th Floor
San Francisco, California 94111-3834
Tel: (415) 576-0200
Fax: (415) 576-0300
MHH:jvl

60316169 v1



PTO/SB/02A (08-03)

Substantive Examination PTO

INFORMATION DISCLOSURE STATEMENT BY APPLICANT

(use as many sheets as necessary)

Sheet 1 of 3

Complete if Known

Application Number	10/008,244
Filing Date	November 7, 2001
First Named Inventor	Huang, Alan
Art Unit	1653
Examiner Name	To Be Assigned
Attorney Docket Number	018781-005510US

RECEIVED
SEP 22 2003
TECH CENTER 1801/2800

U.S. PATENT DOCUMENTS*

Examiner Initials ¹	Cite No. ¹	Document Number		Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	class/subclass Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number	Kind Code ² (if known)			
	1.	5,661,825		01-07-1997	McKnight et al.	530-350
	2.	5,639,858		06-1997	Hoey et al.	530-350
	3.	5,710,288		01-1998	McKnight et al.	536-23.5
	4.	5,718,822 A		02-10-1998	Danell, Jr. et al.	424-185.1
	5.	5,731,155 A		03-24-1998	Schreiber et al.	435-7.1
	6.	5,681,825		01-1997	McKnight et al.	530-350
	7.	8,428,331 B1		07-30-2003	McInnay et al.	514-009

FOREIGN PATENT DOCUMENTS

Examiner Initials ¹	Cite No. ¹	Foreign Patent Document			Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T ⁴
		Country Code ³	Number ⁴	Kind Code ⁵ (if known)				
X	8.	JP	10476664		08-30-1998	Sumitomo-Selyaku-IXC		
X	9.	JP	10476665		08-30-1998	Sumitomo-Selyaku-IXC		
X	40.	JP	11406840		04-20-1999	Sumitomo-Selyaku-IXC		
X	41.	JP	11440481		04-27-1999	Sumitomo-Selyaku-IXC		
X	12.	JP	2300-228850	A1	08-23-2000	Sumitomo-Chem Co Ltd		
OK	13.	WO	97/06182	A1	02-13-1997	BASF Aktiengesellschaft		
OK	14.	WO	98/31704	A1	07-23-1998	Novartis Pharm.		
OK	15.	WO	00/24442	A1	06-20-1999	Ariad Pharm. Inc.		
OK	16.	WO	99/50283	A1	10-07-1999	Tularik Inc.		
OK	17.	WO	00/027802	A1	05-18-2000	Ariad Pharm. Inc.		
OK	18.	WO	01/83517	A1	11-08-2001	Tularik Inc.		

David Little

4/2/04

Examiner Signature	Date Considered
--------------------	-----------------

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. ¹ Applicant's unique citation designation number (optional). ² Kind Codes of U.S. Patent Documents at www.uspto.gov or MPEP 601.04. ³ Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). ⁴ For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. ⁵ Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. ⁶ Applicant is to place a check mark here if English language translation is attached.



PTO/SB/03B (01-01)

Substitute for form 1449B PTO

INFORMATION DISCLOSURE STATEMENT BY APPLICANT

(use as many sheets as necessary)

Sheet 2 of 3

Complete If Known

Application Number	10/008,244
Filing Date	November 7, 2001
First Named Inventor	Huang, Alan
Art Unit	1653
Examiner Name	To Be Assigned
Attorney Docket Number	010781-005510US

RECEIVED
SEP 2 2003
TECH CENTER 16002900

NON PATENT LITERATURE DOCUMENTS			
Examiner Initials *	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T ²
DL	19.	ANONYMOUS, "STAT antibodies" Research Diagnostics, pp. 1-8, March 26, 1998	
	20.	ANONYMOUS, "Stat sampler kit" The 1998 Online Antibody Catalog, Transduction Laboratories, 5 pages, March 26, 1998.	
	21.	ANONYMOUS, "The Jak-STAT mechanism of signal transduction" The Cytokine Bulletin pp. 1-8 (1996) at <http://www.mdsystems.com/espb> (Visited on January 8, 2003)	
	22.	BLOMMERS et al., "Transferred cross-correlated relaxation complements transferred NOE: Structure of an IL-4R-derived peptide bound to STAT-8" J. Am. Chem. Soc. 121(9):1849-1853 (1999)	
	23.	CARPENTER, "Receptor tyrosine kinase substrates: src homology domains and signal transduction" FASEB J. 6:3283-3289 (1992)	
DL	24.	DARNELL et al., "Jak-Stat pathways and transcriptional activation in response to IFNs and other extracellular signaling proteins" Science 264:1415 (1994)	
	25.	HOU et al., "An Interleukin-4-induced transcription factor: IL-4 stat" Science 265:1701-1708 (1994)	
	26.	UHLE et al., "Signaling by the cytokine receptor superfamily: JAKs and STATs" Trends Biochem. Sci. 19:222-227 (1994)	
	27.	UHLE et al., "Jaks and Stats in signaling by the cytokine receptor superfamily" Trends Genetics 11:68-74 (1995)	
	28.	KAPLAN et al., "Impaired IL-12 responses and enhanced development of Th2 cells in stat4-deficient mice" Nature 382:174-177 (1999)	
	29.	KAPLAN, M. et al., "Stat6 is required for mediating responses to IL-4 and for the development of TH2 cells" Immunity 4:313-319 (1996)	
	30.	MARTIN, et al., "Sulfonic acid enkephalins: Binding specificity to rat brain opiate receptors" Neuropeptides 6:293-302 (1986)	
	31.	MYERS et al., "The IRS-1 signaling system" Trends in Biochem. Sci. 19:288-293 (1994)	
	32.	OSHIMA et al., "A novel interleukin-13 antagonist that blocks the biological activity of human interleukin-13 in immune and nonimmune cells" FASEB Journal 15(6):122-144 (2001)	
	33.	PAWSON, T., "Protein modules and signaling networks" Nature 373:573-580 (1995)	
DL	34.	QUELLE et al., "Cloning of murine Stat6 and Human Stat6, Stat proteins that are tyrosine phosphorylated in responses to IL-4 and IL-3 but are not required for mitogenesis" Mol. Cell. Biol. 15:338-3343 (1995)	
	35.	RYAN, J. et al., "Growth and gene expression are predominantly controlled by distinct regions of the human IL-4 receptor" Immunity 4:123-132 (1996)	

Examiner Signature

David L. Patten

Date Considered

4/2/04

EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.
¹ Applicant's unique citation designation number (optional). ² Applicant is to place a check mark here if English language Translation is attached.

60033535 v1



PTO/SB/06B (03-03)

Substitute for form 1, USPTO		Complete if Known	
INFORMATION DISCLOSURE STATEMENT BY APPLICANT (use as many sheets as necessary)		Application Number	10/008,244
		Filing Date	November 7, 2001
		First Named Inventor	Huang, Alan
		Art Unit	1645
		Examiner Name	To Be Assigned
		Attorney Docket Number	018781-005510US
Sheet	3	of	3

RECEIVED
SEP 24 2003
TECH CENTER 1604/2300

NON PATENT LITERATURE DOCUMENTS			
Examiner Initials	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T ²
SL	36.	SCHINDLER, C. et al., "Transcriptional responses to polypeptide ligands: The JAK-STAT pathway" Annu. Rev. Biochem. 64:621-61 (1995)	
	37.	SCHLESSINGER, J. "SH2/SH3 signaling proteins" Curr. Opin. In Gen. and Dev. 4:25-30 (1994)	
	38.	SHUAI et al., "Polypeptide signalling to the nucleus through tyrosine phosphorylation of Jak and Stat proteins" Nature 366:580-583 (1993)	
	39.	THIERFELDER et al., "Requirement for stat4 in interleukin-12 mediated responses of natural killer and T cells" Nature 382:171-174 (1998)	
	40.	WANG, H. et al., "IL-4 function can be transferred to the IL-2 receptor by tyrosine containing sequences found in the IL-4 receptor alpha chain" Immunity 4:113-121 (1996)	
	41.	YAMAMOTO et al., "cDNA cloning, expression and chromosome mapping of the human STAT4 gene: both STAT4 and STAT1 genes are mapped to 2q32.2-q32.3" Cytogenet Cell Genet. 77:207-210 (1997)	
	42.	YAO et al., "Direct interaction of STAT4 with the IL-12 receptor" Archives of Biochemistry and Biophysics 368(1):147-155 (1999)	
SL	43.	ZHONG et al., "Stat3 and Stat4: Members of the family of signal transducers and activators of transcription" Proc. Natl. Acad. Sci. USA 91:4808-4810 (1994)	

David L. Lott

4/2/04

Examiner Signature		Date Considered	
--------------------	--	-----------------	--

¹EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.
²Applicant's unique citation designation number (optional). * Applicant is to place a check mark here if English language Translation is attached.

60033536 v1

**This Page is Inserted by IFW Indexing and Scanning
Operations and is not part of the Official Record**

BEST AVAILABLE IMAGES

Defective images within this document are accurate representations of the original documents submitted by the applicant.

Defects in the images include but are not limited to the items checked:

- ☐ **BLACK BORDERS**
- ☐ **IMAGE CUT OFF AT TOP, BOTTOM OR SIDES**
- ☐ **FADED TEXT OR DRAWING**
- ☐ **BLURRED OR ILLEGIBLE TEXT OR DRAWING**
- ☐ **SKEWED/SLANTED IMAGES**
- ☐ **COLOR OR BLACK AND WHITE PHOTOGRAPHS**
- ☐ **GRAY SCALE DOCUMENTS**
- ☐ **LINES OR MARKS ON ORIGINAL DOCUMENT**
- ☐ **REFERENCE(S) OR EXHIBIT(S) SUBMITTED ARE POOR QUALITY**
- ☐ **OTHER:** _____

IMAGES ARE BEST AVAILABLE COPY.

As rescanning these documents will not correct the image problems checked, please do not report these problems to the IFW Image Problem Mailbox.